Index to Volume 75

The Journal of Heredity, 1984

Abdulla, A. S., et al., Desired family size and sex of children in Libya, 76.
Academic origin of geneticists—a second look. T. R. Mertens and K. W. Eastman, 473.
Adalsteinsson, S., A black-moorit mosaic-colored Icelandic ram, 83.
Adalsteinsson S. and P. K. Basrur, Inheritance of spina bifida in Icelandic lambs, 378.
ADH isozymes in seed of *Nicotiana* species and somatic hybrids, S. A. Kut and D. A. Evans, 215.
Allard, R. W. and B. K. Epperson, Allozyme analysis of the mating system in lodgepole pine populations, 212.
Allard, R. W., et al., Estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, 141.
Allozyme analysis of the mating system in lodgepole pine populations, B. K. Epperson and R. W. Allard, 212.
Al-Rubeai, M. A. F., et al., Desired family size and sex of children in Libya, 76.
Amsbaugh, D. F. and S. H. Stone, Autosomal dominant congenital nuclear cataracts in strain 13/N guinea pigs, 55.
Analyses of muscular dystrophy and Con A deficiency traits in testcross progeny of chickens, K. Kline and B. G. Sanders, 31.

Animal Genetics

Boll weevil: inheritance of alcohol and octanol dehydrogenases, 463.
Cats: maltese dilution—a generalized cutaneous albinism lacking ocular involvement, 41; mutant allele freqencies in rural Wisconsin, 203; fertile male tortoiseshell, 397; mutant allele frequencies of Portugal and the Azores, 495; hairless in Britain, 506.
Cattle: changes in genetic variances with increased inbreeding of beef, 8; detection and prevalence of UMP synthase deficiency among dairy, 277; inheritance of UMP synthase in dairy, 337.
Cockroaches: genetically controlled differences in orientation in interchange heterozygote of German, 107; C-banded meiotic karyotype from prophase I cells, 185.
Cricket: silver staining of male meiosis, 319.
Dogs: germinal reversion of merle allele in Australian shepherd, 78; inheritance of congenital myasthenia gravis in smooth fox terrier, 163; coat color genetics of German shepherd, 247.
Drosophila: larval foraging behavior in isofemale lines of *D. melanogaster* and *D. pseudoobscura*, 131; selection for resistance to desiccation in *D. simulans*, 181; temporal changes of vagility characteristics of three populations in Mexican *D. pseudoobscura*, 281; maternal effect influencing larval viability in *D. melanogaster*, 288; restoration of mutationally suppressed characters in *D. melanogaster*, 308; dominant flightless mutant of *D. melanogaster*, 477; high frequency of cosmopolitan inversions in natural populations of *D. ananassae* from South India, 504; omnibus: a comprehensive experiment for teaching lab genetics, 507.
Fish: genetic control of body length at different ages in *Poecilia reticulata*, 27; linkage associations in hybridized *Salvelinus* genomes, 253; expression of H-Y antigen and evolution of heterogamety in 13 species of *Xiphophorus*, 353; replication banding patterns in chromosomes of rainbow trout, 431; enzyme activities and growth rates in two sunfish species and their hybrids, 453.
Fowl: genetic study of buff columbian color pattern in Prat chickens, 19; analyses of muscular dystrophy and Con A deficiency traits in testcross progeny of chickens, 31; dominant white plumage-color somatic mosaic in domestic, 71; henny-feathering trait of Sebright bantam chicken, 99.
Gerbil: a case of dominance modification in the Mongolian, 323.
Grasshopper: linkage studies of albino, reduced eye, and a new trait, bloody, in *Melanoplus sanguinipes*, 362.
Guinea pig: autosomal dominant congenital nuclear cataracts in strain 13/N, 55.
Honeybees: heritabilities and correlations for several characters, 135; estimate of heritability of pupal weight, 509.
Horses: inbreeding and reproductive performance in Standardbred, 220; G-banding chromosomes, 265; R-banding chromosomes, 269; direct evidence for linkage of roan and extension loci in Belgian, 413.
Locusta migratoria: desynaptic mutants, 74.
Mice: tiger variants may be caused by activated transposable element, 2; new allele at *Mup-1* locus controlling electrophoretic variant of major urinary proteins, 59; backcross method to prevent prenatal death of steel mutant, 73; pigmentation and lysosomal phenotypes in double homozygotes for both light-ear and pale-ear mutant alleles, 103; genetic control of thymus size in inbred, 126; trace metals and otolith defects in mocha, 158; electrophoretic, skeletal, and behavioral divergence of two C3H substrains, 171; regional assignment of *ADA* and *ITPA* to chromosome 2 (C1→ter), demonstrating conserved linkage of enzyme and proto-oncogene loci, 175; correction, 320; new hairless mutant of American deer mouse, 229; location of histocompatibility and interferon loci on chromosome 3, 233; variation in pattern of mystacial vibrissae, 326; association of megacolon with new dominant spotting gene (*Dom*), 435; anorexia, a recessive mutation causing starvation in preweanlings 468; zinc metabolism in lethal-milk: otoliths, lactation, and aging effects, 480; situs inversus in homozygous without immotile cilia, 498.
Mosquitoes: chromosome-linkage group correlation in *Anopheles quadrimaculatus*, 341; red stripe mutant and its relationship in allelic series in *An. quadrimaculatus*, 421; genetics of space, a new sex-linked mutant in *Culex tarsalis*, 493.
Oncopeltus fasciatus: "sex-ratio" factor, 260.
Polistes fuscatus: genetics of speciation within species complex, 117.
Rats: platelet storage pool disease in hybrids, 15; linkage of hooded and hood-modifier genes, 81; esterases: an update of LG V, 313; genetics of fawn-hooded, 349; genetic polymorphism of ceruloplasmin, 414; separate gene loci controlling serum esterases, 419.
Rice planthopper: cytoplasmic incompatibility, 345.
Sheep: black-moorit mosaic-colored Icelandic ram, 83; inheritance of spina bifida in Icelandic lambs, 378.
Shrews: cream, new coat-color mutant in musk, 144; behavior of sex chromosomes during meiosis in the house, 149.
Swine: NOR activity, heterochromatin differentiation, and Robertsonian polymorphism, 79; detection of reciprocal translocations and their consequences on animal performance and economic loss, 448.
Tribolium: experimental study of genetic drift for two quantitative traits, 191.
Walnut husk fly: segregation and linkage of allozymes, 392.
Woodlouse: frequency of the color variety *aureolineatus*, 423.

Anorexia, a recessive mutation causing starvation in preweanling mice, L. J. Maltais, P. W. Lane, and W. G. Beamer, 468.
Arús, P. and T. J. Orton, Inheritance patterns and linkage relationships of eight genes of celery, 11.
Ash, W. J., A text of human and basic genetics (Rev.), 324.
Asman, M. S. and N. F. Knop, Genetics of space, a new sex-linked mutant in *Culex tarsalis*, 493.
Association of megacolon with a new dominant spotting gene (*Dom*) in the mouse, P. W. Lane and H. M. Liu, 435.
Aswathanarayana, N. V. and K. L. Satya-Prakash, Behavior of sex chromosomes during meiosis in the house shrew, 149.
Autosomal dominant congenital nuclear cataracts in strain 13/N guinea pigs, D. F. Amsbaugh and S. H. Stone, 55.

Babu, K. A., et al., Position of late and early replicating human X chromosomes at somatic metaphase, 155.

Backcross method to prevent prenatal death of steel mutant mice, W. Wiktor-Jedrzejczak and L. Kaczmarek, 73.
Bahri, I., et al., Reciprocal translocations in pigs: their detection and consequences on animal performance and economic losses, 448.
Bailey, D. W., et al., Location of histocompatibility and interferon loci on chromosome 3 of the mouse, 233.
Barnes, P. T., A maternal effect influencing larval viability in *Drosophila melanogaster*, 288.
Baron, J., et al., Inheritance of the henny-feathering trait of the Sebright bantam chicken, 99.
Basrur, P. K. and S. Adalsteinsson, Inheritance of spina bifida in Icelandic lambs, 378.
Bassett, M. J. and R. M. Manshardt, Inheritance of stigma position in *Phaseolus vulgaris* × *P. coccineus* hybrid populations, 45.
Bauer, S. J. and M. B. Sokolowski, Larval foraging behavior in isofemale lines of *Drosophila melanogaster* and *D. pseudoobscura*, 131.
Beamer, W. G., et al., Anorexia, a recessive mutation causing starvation in preweanling mice, 468.
Behavior of sex chromosomes during meiosis in the house shrew, K. L. Satya-Prakash and N. V. Aswathanarayana, 149.
Bell, A. E., et al., An experimental study of genetic drift for two quantitative traits in *Tribolium*, 191.
Berlocher, S. H., Segregation and linkage of allozymes of the walnut husk fly, 392.
Bernard, R. L., et al., Genetic and cytological studies of a male-sterile, female-fertile soybean mutant: a new male-sterile gene (ms_2) in *Glycine max* (L.) Merr., 383.
Bingham, E. T. and J. Hawkins-Pfeiffer, Female sterility in alfalfa due to a recessive trait retarding integument development, 231.
Black-moorit mosaic-colored Icelandic ram, S. Adalsteinsson, 83.
Bloom, S. E. and M. E. Delany, Replication banding patterns in the chromosome of the rainbow trout, 431.
Bonneau, M., et al., Reciprocal translocations in pigs: their detection and consequences on animal performance and economic losses, 448.
Books reviewed: Evolutionary Biology, volume 14. M. K. Hecht, W. C. Steere, B. Wallace, and G. T. Prance, Eds., 513; Evolutionary Biology, volume 15. M. K. Hecht, B. Wallace and G. T. Prance, Eds., 513; Human Genetics, D. L. Hartl, 324; Mechanisms of Speciation, C. Barigozzi, Ed., 84.
Boscher, J., et al., Reciprocal translocations in pigs: their detection and consequences on animal performance and economic losses, 448.
Boyce, A. J., et al., Inbreeding and reproductive performance in Standardbred horses, 220.
Brinks, J. S., et al., Changes in genetic variances with increased inbreeding of beef cattle, 8.
Brown, M. A., et al., Heritabilities and correlations for several characters in the honeybee, 135.
Brown, M. S., et al., Incipient genome differentiation in *Gossypium*: IV. The genome of *G. laxum*, 389.
Bunch, T. D., et al., Detailed description and nomenclature of high resolution G-banded horse chromosomes, 265.
Bunker, H. P., et al., Location of histocompatibility and interferon loci on chromosome 3 of the mouse, 233.
Burk, L. G. and D. F. Matzinger, Cytoplasmic modification by anther culture in *Nicotiana tabacum* L., 167.
Buzzell, R. I. and J. C. Tu, Inheritance of soybean resistance to soybean mosaic virus, 82.

Calculation of indices of genetic distance and similarity: unbiased estimation corrected for sample size in BASIC computer program, D. M. Green, 415.
Campo, J. L. and F. Orozco, A genetic study of the buff columbian color pattern in Prat chickens, 19.
Cardemil, L., et al., Comparative study of the karyotypes of South American species of *Araucaria*, 121.
Carver, E. A., Coat color genetics of the German shepherd dog, 247.
Case of dominance modification in the Mongolian gerbil, B. D. Leiper and R. Robinson, 323.
C-banded meiotic karyotype of *Blattella germanica* from prophase I cells, C. B. Keil and M. H. Ross, 185.
Changes in genetic variances with increased inbreeding of beef cattle, W. C. Russell, J. S. Brinks, and G. V. Richardson, 8.
Chapco, W., Genetics of grasshoppers: I. Linkage studies of albino, reduced eye, and a new trait, bloody, in *Melanoplus sanguinipes*, 362.
Cheliak, W. M. and J. A. Pitel, Genetic control of allozyme variants in mature tissues of white spruce trees, 34; correction, 416.
Christie P. and M. R. MacNair, Complementary lethal factors in two North America populations of the yellow monkey flower, 510.
Chromosomal and behavioral studies of Mexican *Drosophila*: II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura* M. E. de la Rosa, M. I. Gaso, F. Gonzalez, J. Guzman, L. Levine, O. Olvera, and R. F. Rockwell, 281.
Chromosomal locations of twelve isozyme loci in *Pisum sativum*, N. F. Weeden and G. A. Marx, 365.
Chromosome and fertility studies on reciprocal crosses between two species of autotetraploid sorghum, N. Sangduen and W. W. Hanna, 293.
Chromosome-linkage group correlation in *Anopheles quadrimaculatus* (Say), S. E. Mitchell and J. A. Seawright, 341.
Chromosome location of the H_5 gene for resistance to the Hessian fly in wheat, J. J. Roberts and R. L. Gallun, 147.
CHROMPAC III, an improved package for microcomputer-assisted analysis of karyotypes, D. M. Green, P. Z. Myers, and D. L. Reyna, 143.
Clayberg, C. D. and C. A. Okonkwo, Genetics of flower and pod color in *Phaseolus vulgaris*, 440.
Clegg, M. T., et al., Stem color and pleiotropy of genes determining flower color in the common morning glory, 113.
Coat color genetics of the German shepherd dog, E. A. Carver, 247.
Cochran, D. G., et al., Genetically controlled differences in orientation in an interchange heterozygote of the German cockroach, 107.
Collier, G. E. and C. Finke, Dominant flightless mutant of *Drosophila melanogaster*, 477.
Collier, L. L. and D. J. Prieur, Maltese dilution of domestic cats: a generalized cutaneous albinism lacking ocular involvement, 41.
Collins, A. M., et al., Heritabilities and correlations for several characters in the honeybee, 135.
Comparative study of the karyotypes of South American species of *Araucaria*, L. Cardemil, E. Salas, and M. Godoy, 121.
Complementary lethal factors in two North American populations of the yellow monkey flower, P. Christie and M. R. MacNair, 510.
Computer program for calculating recombination values from electrophoretic data, A. Hakim-Elahi, 150.
Corcos, A. F. Reproduction and heredity beliefs of the Hindus based on their sacred books, 152.
Corcos, A. and F. Monaghan: On the origins of the Mendelian laws, 67; The true Mendelian laws, 321; Mendel had no "true" monohybrids, 499.
Corrections: Double balanced chromosomal carrier (6;8), (13;14)—a case report, 154; Regional assignment of *ADA* and *ITPA* to mouse chromosome 2 (C1→ter): a demonstration of the conserved linkage of enzyme and proto-oncogene loci, 320; Genetic control of allozyme variants in mature tissues of white spruce trees, 416.
Cothran, E. G., et al., Inbreeding and reproductive performance in Standardbred horses, 220.
Coyne, J. A. and T. Prout, Restoration of mutationally suppressed characters in *Drosophila melanogaster*, 308.
Cream, a new coat-color mutant in the musk shrew, R. Iseki, T. Namikawa, and K. Kondo, 144.
Cremeens, C. R., et al., Genetic and cytological studies of a male-sterile, female-fertile soybean mutant: a new male-sterile gene (ms_2) in *Glycine max* (L.) Merr., 383.
Cytological analysis of an *Elymus canadensis* × *Secale cereale* hybrid, A. Hang and J. D. Franckowiak, 235.
Cytoplasmic incompatibility in a rice planthopper, H. Noda, 345.
Cytoplasmic modification by anther culture in *Nicotiana tabacum* L., D. F. Matzinger and L. G. Burk, 167.

Delany, M. E. and S. E. Bloom, Replication banding patterns in the chromosomes of the rainbow trout, 431.
de la Rosa, M. E., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.
DeMaeyer, E., et al., Location of histocompatibility and interferon loci on chromosome 3 of the mouse, 233.
DeMaeyer-Guignard, J., et al., Location of histocompatibility and interferon loci on chromosome 3 of the mouse, 233.
Den Bieman, M. G. C. W. and L. F. M. van Zutphen, Rat esterases: an update of linkage group V, 313.
DeSantis, J. L., et al., Platelet storage pool disease in hybrid rats: F_1 Fawn-hooded rats derived from crosses with their putative ancestors (*Rattus norvegicus*), 15.

Desired family size and sex of children in Libya, A. S. Abdulla, M. A. F. Al-Rubeai, and E. Gray, 76.
Desynaptic mutants of *Locusta migratoria*, M. Diez and M. J. Puertas, 74.
Detailed description and nomenclature of high resolution G-banded horse chromosomes, A. Maciulis, T. D. Bunch, J. L. Shupe, and N. C. Leone, 265.
Detection and prevalence of UMP synthase deficiency among dairy cattle, J. L. Robinson, D. B. Dombrowski, G. W. Harpestad, and R. D. Shanks, 277.
Devine, T. E., Inheritance of soybean nodulation response with a fast-growing strain of *Rhizobium*, 359.
Devine, T. E., et al., Simultaneous genetic mapping of morphological and biochemical traits in the soybean, 311.
Diez, M. and M. J. Puertas, Desynaptic mutants of *Locusta migratoria*, 74.
Diez, M., et al., Genetically controlled differences in orientation in an interchange heterozygote of the German cockroach, 107.
Direct evidence for linkage of roan and extension loci in Belgian horses, D. P. Sponenberg, H. T. Harper, and A. L. Harper, 413.
Dombrowski, D. B., et al.: Detection and prevalence of UMP synthase deficiency among dairy cattle, 277; Inheritance of UMP synthase in dairy cattle, 337.
Dominant flightless mutant of *Drosophila melanogaster*, G. E. Collier and C. Finke, 477.
Dominant white plumage-color somatic mosaic in the domestic fowl, R. G. Somes, Jr., 71.
Dörfl, J., et al., Variation in pattern of mystacial vibrissae in mice: a quantitative study of ICR stock and several inbred strains, 326.
Dosik, D., et al., Position of late and early replicating human X chromosomes at somatic metaphase, 155.
Double balanced chromosomal translocation carrier (6;8), (13;14)—a case report: critique and response, R. S. Young and J. M. Rary, 154.
Dowling, T. E. and W. S. Moore, A program for estimating genetic variability within and between populations, 416.
Dujardin, M. and W. W. Hanna, Pseudogamous parthenogenesis and fertilization of a pearl millet × *Pennisetum orientale* apomictic derivative, 503.

Eastman, K. W. and T. R. Mertens, Academic origin of geneticists—a second look, 473.
Eckhardt, R. B.: Evolutionary biology, volumes 14 and 15 (Rev.), 513.
Effects of carotenoid-anthocyanin combinations on flower color, R. J. Griesbach, 145.
Electrophoretic, skeletal, and behavioral divergency of two C3H substrains of mice, K. J. Lavery and D. A. Hay, 171.
Elfman, B. and W. G. Hopkins, Temperature-induced chloroplast ribosome deficiency in virescent maize, 207.
Engler, D. E. and R. G. Grogan, Variation in lettuce plants regenerated from protoplasts, 426.
Ennos, R. A., et al., Stem color and pleiotropy of genes determining flower color in the common morning glory, 113.
Enzyme activities and growth rates in two sunfish species and their hybrids, M. Pasdar, D. P. Philipp, and G. S. Whitt, 453.
Epperson, B. K. and R. W. Allard, Allozyme analysis of the mating system in lodgepole pine populations, 212.
Erway, L. C. and A. Grider, Jr., Zinc metabolism in lethal-milk mice: otoliths, lactation, and aging effects, 480.
Erway, L. C. and R. M. Rolfsen, Trace metals and otolith defects in mocha mice, 158.
Estimate of the heritability of honeybee pupal weight, C. P. Milne, Jr. and G. W. Friars, 509.
Estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, S. C. Price, K. M. Shumaker, A. L. Kahler, R. W. Allard, and J. E. Hill, 141.
Ethyl methanesulfonate-induced chloroplast mutagenesis in crops: induction and ultrastructure of mutants, P. D. Miller, K. C. Vaughn, and K. G. Wilson, 86.
Evans, D. A. and S. A. Kut, ADH isozymes in seed of *Nicotiana* species and somatic hybrids, 215.
Evidence for separate gene loci (*Es-1* and *Es-S1*) controlling serum esterases in rats, H. Nikaido, J. Hayakawa, Y. Kondo, and J. Yamada, 419.
Evolutionary Biology, volumes 14 and 15, R. B. Eckhardt (Rev.), 513.
Experimental study of genetic drift for two quantitative traits in *Tribolium*, S. S. Rich, A. E. Bell, D. A. Miles, and S. P. Wilson, 191.
Expression and inheritance of parthenocarpy in 'Severianin' tomato, S. Lin, W. L. George, and W. E. Splittstoesser, 62.

Female sterility in alfalfa due to a recessive trait retarding integument development, E. T. Bingham and J. Hawkins-Pfeiffer, 231.
Fertile backcross and allotetraploid plants from crosses between tepary beans and common beans, C. V. Thomas and J. G. Waines, 93.
Fertile male tortoiseshell cats: mosaicism due to gene instability?, C. Moran, C. B. Gillies, and F. W. Nicholas, 397.
Finke, C. and G. E. Collier, Dominant flightless mutant of *Drosophila melanogaster*, 477.
Fournier, R. E. K., et al., Regional assignment of *ADA* and *ITPA* to mouse chromosome 2 (C1→ter): a demonstration of the conserved linkage of enzyme and proto-oncogene loci, 175; correction, 320.
Franckowiak, J. D. and A. Hang, Cytological analysis of an *Elymus canadensis* × *Secale cereale* hybrid, 235.
Frequency of the color variety *aureolineatus* in the woodlouse, R. J. Post, 423.
Friars, G. W. and C. P. Milne, Jr., An estimate of the heritability of honeybee pupal weight, 509.

Gallun, R. L. and J. J. Roberts, Chromosome location of the H_5 gene for resistance to the Hessian fly in wheat, 147.
Gaso, M. I., et al., Chromosomal and behavioral studies of Mexican *Drosophila*: II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.
G-band-like differentiation in mitotic prometaphase chromosomes of celery, M. Murata and T. J. Orton, 225.
Geber, G., et al., NOR activity, heterochromatin differentiation, and the Robertsonian polymorphism in *Sus scrofa* L., 79.

General Genetics

Academic origin of geneticists—a second look, 473.
Computer programs: estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, 141; CHROMPAC III, microcomputer-assisted analysis of karyotypes, 143; calculating recombination values from electrophoretic data, 150; calculation of indices of genetic distance and similarity, 415; estimating genetic variability within and between populations, 416.
Mendel G.: origins of laws discussed, 67; commemorative stamp, 316; laws reexamined, 321; no "true" monohybrids, 499; L. H. Bailey's citations to, 500; the too-good-to-be-true paradox, 501.

Genetically controlled differences in orientation in an interchange heterozygote of the German cockroach, M. Diez, M. H. Ross, and D. G. Cochran, 107.
Genetic and cytological studies of a male-sterile, female-fertile soybean mutant: a new male-sterile gene (ms_2) in *Glycine max* (L.) Merr., R. A. Graybosch, R. L. Bernard, C. R. Cremeens, and R. G. Palmer, 383.
Genetic control of allozyme variants in mature tissues of white spruce trees, W. M. Cheliak and J. A. Pitel, 34; correction, 416.
Genetic control of body length at different ages in *Poecilia reticulata*, M. L. Vanelli, G. Rocchetta, and C. Pancaldi, 27.
Genetic control of thymus size in inbred mice, L. Peleg and M. N. Nesbitt, 126.
Genetic polymorphism of ceruloplasmin in the rat, V. Stolc, 414.
Genetics of flower and pod color in *Phaseolus vulgaris*, C. A. Okonkwo and C. D. Clayberg, 440.
Genetics of *Gibberella fujikuroi*: V. Spore killer alleles in *G. fujikuroi*, G. S. Sidhu, 237.
Genetics of grasshoppers: I. Linkage studies of albino, reduced eye, and a new trait, bloody, in *Melanoplus sanguinipes*, W. Chapco, 362.
Genetics of internode length in melons, H. S. Paris, H. Nerson, and Z. Karchi, 403.
Genetics of space, a new sex-linked mutant in *Culex tarsalis*, S. M. Asman and N. F. Knop, 493.
Genetics of speciation within the *Polistes fuscatus* species complex, R. A. Metcalf, J. C. Marlin, and G. S. Whitt, 117.
Genetics of the fawn-hooded rat strain: the coat color dilution and platelet storage pool deficiency are pleiotropic effects of the autosomal recessive red-eyed dilution gene, D. J. Prieur and K. M. Meyers, 349.
Genetic study of the buff columbian color pattern in Prat chickens, J. L. Campo and F. Orozco, 19.
George, F. W., et al., Inheritance of the henny-feathering trait of the Sebright bantam chicken, 99.
George, W. L., et al., Expression and inheritance of parthenocarpy in 'Severianin' tomato, 62.
Germinal reversion of the merle allele in Australian shepherd dogs, D. P. Sponenberg, 78.
Giannasi, D. E., et al., Stem color and pleiotropy

of genes determining flower color in the common morning glory, 113.
Gillies, C. B., et al., Fertile male tortoiseshell cats: mosaicism due to gene instability?, 397.
Godoy, M., et al., Comparative study of the karyotypes of South American species of *Araucaria*, 121.
Gonzalez, B. and W. W. Hanna, Morphological and fertility responses in isogenic triploid and hexaploid pearl millet × napiergrass hybrids, 317.
Gonzalez, F., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.
Gorman, M. B., et al., Simultaneous genetic mapping of morphological and biochemical traits in the soybean, 311.
Gorz, H. J., et al., Identification of chromosomes with secondary constrictions in *Melilotus* species, 23.
Gray, E. and V. K. Hurt, Inheritance of brachydactyly type D, 297.
Gray, E., et al., Desired family size and sex of children in Libya, 76.
Graybosch, R. A., et al., Genetic and cytological studies of a male-sterile, female-fertile soybean mutant: a new male-sterile gene (*ms*-$_2$) in *Glycine max* (L.) Merr., 383.
Green, D. M., Calculation of indices of genetic distance and similarity: unbiased estimation corrected for sample size in BASIC computer program, 415.
Green, D. M., et al., CHROMPAC III: an improved package for microcomputer-assisted analysis of karyotypes, 143.
Grider, Jr. A. and L. C. Erway, Zinc metabolism in lethal-milk mice: otoliths, lactation, and aging effects, 480.
Griesbach, R. J., Effects of carotenoid-anthocyanin combinations on flower color, 145.
Grogan, R. G. and D. E. Engler, Variation in lettuce plants regenerated from protoplasts, 426.
Gu, M.-H., et al., Karyotype analysis of seven species in the genus *Sorghum*, 196.
Guzman, J., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.

Hairless cats in Great Britain, P. M. Hendy-Ibbs, 506.
Hakim-Elahi, A., Computer program for calculating recombination values from electrophoretic data, 150.
Hamilton, M. J., et al., Inheritance of congenital myasthenia gravis in smooth fox terrier dogs, 163.
Hamrick, J. L. and C. A. Smyth, Variation in estimates of outcrossing in musk thistle populations, 303.
Handel, M. A. and J. R. Kennedy, Situs inversus in homozygous mice without immotile cilia, 498.
Hang, A. and J. D. Franckowiak, Cytological analysis of an *Elymus canadensis* × *Secale cereale* hybrid, 235.
Hanna, W. W. and B. Gonzalez, Morphological and fertility responses in isogenic triploid and hexaploid pearl millet × napiergrass hybrids, 317.
Hanna, W. W. and M. Dujardin, Pseudogamous parthenogenesis and fertilization of a pearl millet × *Pennisetum orientale* apomictic derivative, 503.
Hanna, W. W. and N. Sangduen, Chromosome and fertility studies on reciprocal crosses between two species of autotetraploid sorghum, 293.
Hanson, M. R. and L. P. Hosticka, Induction of plastid mutations in tomatoes by nitrosomethylurea, 242.
Harbo, J. R., et al., Heritabilities and correlations for several characters in the honeybee, 135.
Harper, A. L., et al., Direct evidence for linkage of roan and extension loci in Belgian horses, 413.
Harper, H. T., et al., Direct evidence for linkage of roan and extension loci in Belgian horses, 413.
Harpestad, G. W., et al.: Detection and prevalence of UMP synthase deficiency among dairy cattle, 277; Inheritance of UMP synthase in dairy cattle, 337.
Haskins, F. A., et al., Identification of chromosomes with secondary constrictions in *Melilotus* species, 23.
Hawkins-Pfeiffer, J., Female sterility in alfalfa due to a recessive trait retarding integument development, 231.
Hay, D. A. and K. J. Lavery, Electrophoretic, skeletal, and behavioral divergence of two C3H substrains of mice, 171.
Hayakawa, J.-I. and H. Nikaido, A new allele at the *Mup-1* locus controlling an electrophoretic variant of major urinary proteins in mice, 59.
Hayakawa, J., et al., Evidence for separate gene loci (*Es-1* and *Es-Si*) controlling serum esterases in rats, 419.
Hegreberg, G. A., et al., Inheritance of congenital myasthenia gravis in smooth fox terrier dogs, 163.
Hendy-Ibbs, P. M., Hairless cats in Great Britain, 506.
Heritabilities and correlations for several characters in the honeybee, A. M. Collins, T. E. Rinderer, J. R. Harbo, and M. A. Brown, 135.
High frequency of cosmopolitan inversions in natural populations of *Drosophila ananassae* from Kerala, South India, B. N. Singh, 504.
Hill, J. E., et al., Estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, 141.
Hollister, A., et al., Linkage associations in hybridized *Salvelinus* genomes: the duplicate loci encoding pepidase-D and glucosephosphate isomerase and the unduplicated sorbitol dehydrogenase locus, 253.
Honma, S. and C. E. Mero: Inheritance of bolt resistance in an interspecific cross of *Brassica* species: I. *B. napus* L. × *B. campestris* L. ssp. *pekinensis*, 407; II. Chikale (*B. campestris* L. ssp. *pekinensis* × *B. napus* L.) × Chinese cabbage, 485.
Hopkins, W. G. and B. Elfman, Temperature-induced chloroplast ribosome deficiency in virescent maize, 207.
Hosticka, L. P. and M. R. Hanson, Induction of plastid mutations in tomatoes by nitrosomethylurea, 242.
Hsiao, C. and R. R-C. Wang, Morphology and cytology of interspecific hybrids of *Leymus mollis*, 488.

Human Genetics

Brachydactyly type D, 297.
Desired family size and sex of children in Libya, 76.
Double balanced chromosomal translocation carrier (6;8), (13;14)—a case report: critique and response, 154.
Position of late and early replicating X chromosomes at somatic metaphase, 155.
Reproduction and heredity beliefs of the Hindus based on their sacred books, 152.

Hurt, V. K. and E. Gray, Inheritance of brachydactyly type D, 297.
H-Y antigen and the evolution of heterogamety, D. Nakamura, S. S. Wachtel, and K. Kallman, 353.

Identification of chromosomes with secondary constrictions in *Melilotus* species, S. E. Schlarbaum, L. B. Johnson, H. J. Gorz, and F. A. Haskins, 23.
Inbreeding and reproductive performance in Standardbred horses, E. G. Cothran, J. W. MacCluer, L. R. Weitkamp, D. W. Pfennig, and A. J. Boyce, 220.
Incipient genome differentiation in *Gossypium*: IV. The genome of *G. laxum*, M. Y. Menzel, S. Naqi, and M. S. Brown, 389.
Induction of plastid mutations in tomatoes by nitrosomethylurea, L. P. Hosticka and M. R. Hanson, 242.
Inheritance of alcohol and octanol dehydrogenases in the boll weevil, A. C. Terranova and D. T. North, 463.
Inheritance of bolt resistance in an interspecific cross of *Brassica* species: *Brassica napus* L. × *B. campestris* L. ssp. *pekinensis*, C. E. Mero and S. Honma, 407.
Inheritance of bolt resistance in an interspecific cross of *Brassica* species: II. Chikale (*B. campestris* L. ssp. *pekinensis* × *B. napus* L.) × Chinese cabbage, C. E. Mero and S. Honma, 485.
Inheritance of brachydactyly type D, E. Gray and V. K. Hurt, 297.
Inheritance of congenital myasthenia gravis in smooth fox terrier dogs, L. M. Miller, G. A. Hegreberg, D. J. Prieur, and M. J. Hamilton, 163.
Inheritance of glabrous pods in fababeans, D. G. Roupakias and A. S. Tsaftaris, 422.
Inheritance of leaf variegation in *Vitis* species, B. I. Reisch and J. P. Watson, 417.
Inheritance of soybean nodulation response with a fast-growing strain of *Rhizobium*, T. E. Devine, 359.
Inheritance of soybean resistance to soybean mosaic virus, R. I. Buzzell and J. C. Tu, 82.
Inheritance of spina bifida in Icelandic lambs, S. Adalsteinsson and P. K. Basrur, 378.
Inheritance of stigma position in *Phaseolus vulgaris* × *P. coccineus* hybrid populations, R. M. Manshardt and M. J. Bassett, 45.
Inheritance of stripe in pearl millet, S. A. Rao and M. H. Mengesha, 314.
Inheritance of the henny-feathering trait of the Sebright bantam chicken, R. G. Somes, Jr., F. W. George, J. Baron, J. F. Noble, and J. D. Wilson, 99.
Inheritance of UMP synthase in dairy cattle, R. D. Shanks, D. B. Dombrowski, G. W. Harpestad, and J. L. Robinson, 337.

Inheritance patterns and linkage relationships of eight genes of celery, P. Arûs and T. J. Orton, 11.
Interchromosomal connections as a parameter for somatic association in *Lathyrus sylvestris*, U. C. Lavania and A. K. Sharma, 511.
Iseki, R., et al., Cream, a new coat-color mutant in the musk shrew, 144.
Isozyme marker for resistance to bean yellow mosaic virus in *Pisum sativum*, N. F. Weeden, R. Provvidenti, and G. A. Marx, 411.
Isozymes from avocado cotyledons, A. M. Torres, 300.

Johnson, K. R., et al., Linkage associations in hybridized *Salvelinus* genomes: the duplicate loci encoding pepidase-D and glucosephosphate isomerase and the unduplicated sorbitol dehydrogenase locus, 253.
Johnson, L. B., et al., Identification of chromosomes with secondary constrictions in *Melilotus* species, 23.

Kaczmarek, L. and W. Wiktor-Jedrzejczak, A backcross method to prevent prenatal death of steel mutant mice, 73.
Kahler, A. L., et al., Estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, 141.
Kallman, K., et al., H-Y antigen and the evolution of heterogamety, 353.
Karchi, Z., et al., Genetics of internode length in melons, 403.
Karyotype analysis of seven species in the genus *Sorghum*, M.-H. Gu, H.-T. Ma, and G. H. Liang, 196.
Keil, C. B. and M. H. Ross, C-banded meiotic karyotype of *Blattella germanica* from prophase I cells, 185.
Kennedy, J. R. and M. A. Handel, Situs inversus in homozygous mice without immotile cilia, 498.
Kerr, S. J., Mutant allele frequencies in rural Wisconsin cats, 203.
Kiang, Y. T., et al., Simultaneous genetic mapping of morphological and biochemical traits in the soybean, 311.
Kline, K. and B. G. Sanders, Analyses of muscular dystrophy and Con A deficiency traits in testcross progeny of chickens, 31.
Kneen, B. E. and T. A. LaRue, Nodulation resistant mutant of *Pisum sativum* (L.), 238.
Knop, N. F. and S. M. Asman, Genetics of space, a new sex-linked mutant in *Culex tarsalis*, 493.
Kondo, K., et al., Cream, a new coat-color mutant in the musk shrew, 144.
Kondo, Y., et al., Evidence for separate gene loci (*Es-1* and *Es-Si*) controlling serum esterases in rats, 419.
Kut, S. A. and D. A. Evans, ADH isozymes in seed of *Nicotiana* species and somatic hybrids, 215.

Lane, P. W. and H. M. Liu, Association of megacolon with a new dominant spotting gene (*Dom*) in the mouse. 435.
Lane, P. W., et al., Anorexia, a recessive mutation causing starvation in preweanling mice, 468.
LaRue, T. A. and B. E. Kneen, Nodulation resistant mutant of *Pisum sativum* (L.), 238.
Larval foraging behavior in isofemale lines of *Drosophila melanogaster* and *D. pseudoobscura*, S. J. Bauer and M. B. Sokolowski, 131.
Lavania, U. C. and A. K. Sharma, Interchromosomal connections as a parameter for somatic association in *Lathyrus sylvestris*, 511.
Lavery, K. J. and D. A. Hay, Electrophoretic, skeletal, and behavioral divergency of two C3H substrains of mice, 171.
Lax, A. R., et al., Nuclear inheritance of polyphenol oxidase in *Nicotiana*, 285.
Leiper, B. D. and R. Robinson, A case of dominance modification in the Mongolian gerbil, 323.
Leone, N. C., et al., Detailed description and nomenclature of high resolution G-banded horse chromosomes, 265.
Leslie, J. F., A "sex ratio" condition in *Oncopeltus fasciatus*, 260.
Levine, L., et al., Chromosomal and behavioral studies of Mexican *Drosophila:* II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.
L. H. Bailey's citations to Gregor Mendel, M. H. MacRoberts, 500.
Liang, G. H., et al., Karyotype analysis of seven species in the genus *Sorghum*, 196.
Lin, S., et al., Expression and inheritance of parthenocarpy in 'Severianin' tomato, 62.
Linkage associations in hybridized *Salvelinus* genomes: the duplicate loci encoding pepidase-D and glucosephosphate isomerase and the unduplicated sorbitol dehydrogenase locus, A. Hollister, K. R. Johnson, and J. E. Wright, Jr., 253.
Linkage of hooded and hood-modifier genes in the rat, V. Stolc, 81.
Liu, H. M. and P. W. Lane, Association of megacolon with a new dominant spotting gene (*Dom*) in the mouse, 435.
Lloyd, A. T. and N. B. Todd, Mutant allele frequencies in domestic cats of Portugal and the Azores, 495.
Location of histocompatibility and interferon loci in chromosome 3 of the mouse, L. E. Mobraaten, H. P. Bunker, J. DeMaeyer-Guignard, E. DeMaeyer, and D. W. Bailey, 233.
Louis, Jr., E. E. and A. Packchanian, New hairless mutant of the American deer mouse, *Peromyscus californicus insignis*, 229.

Ma, H.-T., et al., Karyotype analysis of seven species in the genus *Sorghum*, 196.
Maan, S. S., Possible mechanisms for the persistence of genes for shriveled-seed trait in wheat strains derived from wheat-rye hybrids, 273.
MacCluer, J. W., et al., Inbreeding and reproductive performance in Standardbred horses, 220.
Maciulis, A., et al., Detailed description and nomenclature of high resolution G-banded horse chromosomes, 265.
MacNair, M. R. and P. Christie, Complementary lethal factors in two North American populations of the yellow monkey flower, 510.
MacRoberts, M. H., L. H. Bailey's citations to Gregor Mendel, 500.
Maltais, L. J., et al., Anorexia, a recessive mutation causing starvation in preweanling mice, 468.
Maltese dilution of domestic cats: a generalized cutaneous albinism lacking ocular involvement, D. J. Prieur and L. L. Collier, 41.
Manshardt, R. M. and M. J. Bassett, Inheritance of stigma position in *Phaseolus vulgaris* × *P. coccineus* hybrid populations, 45.
Marlin, J. C., et al., Genetics of speciation within the *Polistes fuscatus* species complex, 117.
Marx, G. A. and N. F. Weeden, Chromosomal locations of twelve isozyme loci in *Pisum sativum*, 365.
Marx, G. A., et al., An isozyme marker for resistance to bean yellow mosaic virus in *Pisum sativum*, 411.
Maternal effect influencing larval viability in *Drosophila melanogaster*, P. T. Barnes, 288.
Matzinger, D. F. and L. G. Burk, Cytoplasmic modification by anther culture in *Nicotiana tabacum* L., 167.
Mayr, B., et al., NOR activity, heterochromatin differentiation, and the Robertsonian polymorphism in *Sus scrofa* L., 79.
McCollum, G. D. and K. V. Peter, Pollen-stigma compatibility in direct and reciprocal crosses of *Capsicum* species, 70.
McCreight, J. D., Phenotypic variation of male-fertile and male-sterile segregates of *ms-1* and *ms-2* muskmelon hybrids, 51.
Mechanisms of speciation: published proceedings, M. L. Tracey (Rev.), 84.
Meisler, M. H., et al., Pigmentation and lysosomal phenotypes in mice doubly homozygous for both light-ear and pale-ear mutant alleles, 103.
Mendel, Gregor: a stamp commemorating the 100th anniversary of his death, 316.
Mendel had no "true" monohybrids, A. Corcos and F. Monaghan, 499.
Mengesha, M. H. and S. A. Rao, Inheritance of stripe in pearl millet, 314.
Menzel, M. Y., et al., Incipient genome differentiation in *Gossypium:* IV. The genome of *G. laxum*, 389.
Mero, C. E. and S. Honma: Inheritance of bolt resistance in an interspecific cross of *Brassica* species: I. *B. napus* L. × *B. campestris* L. ssp. *pekinensis*, 407; II. Chikale (*B. campestris* L. ssp. *pekinensis* × *B. napus* L.) × Chinese cabbage, 485.
Mertens, T. R. and K. W. Eastman, Academic origin of geneticists—a second look, 473.
Metaphase I configurations of the reciprocal translocations in a cytogenetic tester set of *Gossypium hirsutum* L., D. T. Ray, 371.
Metcalf, R. A., et al., Genetics of speciation within the *Polistes fuscatus* species complex, 117.
Meyers, K. M. and D. J. Prieur, Genetics of the fawn-hooded rat strain: the coat color dilution and platelet storage pool deficiency are pleiotropic effects of the autosomal recessive red-eyed dilution gene, 349.
Miles, D. A., et al., An experimental study of genetic drift for two quantitative traits in *Tribolium*, 191.
Miller, L. M., et al., Inheritance of congenital myasthenia gravis in smooth fox terrier dogs, 163.
Miller, P. D., et al., Ethyl methanesulfonate-induced chloroplast mutagenesis in crops: induction and ultrastructure of mutants, 86.
Milne, Jr., C. P. and G. W. Friars, An estimate of the heritability of honeybee pupal weight, 509.
Mitchell, S. E. and J. A. Seawright: Chromosome-linkage group correlation in *Anopheles*

quadrimaculatus (Say), 341; A red stripe mutant and its relationship in an allelic series in *Anopheles quadrimaculatus*, 421.
Mobraaten, L. E., et al., Location of histocompatibility and interferon loci on chromosome 3 of the mouse, 233.
Monaghan, F. and A. Corcos: On the origins of the Mendelian laws, 67; The true Mendelian laws, 321; Mendel had no "true" monohybrids, 499.
Moore, W. S. and T. E. Dowling, A program for estimating genetic variability within and between populations, 416.
Moran, C., et al., Fertile male tortoiseshell cats: mosaicism due to gene instability?, 397.
Morphological and fertility responses in isogenic triploid and hexaploid pearl millet × napiergrass hybrids, B. Gonzalez and W. W. Hanna, 317.
Morphology and cytology of interspecific hybrids of *Leymus mollis*, R. R-C. Wang and C. Hsiao, 488.
Murata, M. and T. J. Orton, G-band-like differentiation in mitotic prometaphase chromosomes of celery, 225.
Mutant allele frequencies in domestic cats of Portugal and the Azores, N. B. Todd and A. T. Lloyd, 495.
Mutant allele frequencies in rural Wisconsin cats, S. J. Kerr, 203.
Myers, P. Z., et al., CHROMPAC III: an improved package for microcomputer-assisted analysis of karyotypes, 143.

Nakamura, D., et al., H-Y antigen and the evolution of heterogamety, 353.
Namikawa, T., et al., Cream, a new coat-color mutant in the musk shrew, 144.
Naqi, S., et al., Incipient genome differentiation in *Gossypium*: IV. The genome of *G. laxum*, 389.
Nash, H. R. and M. E. Wallace, A tiger mouse and relatives: variants caused by an activated transposable element?, 2.
Nerson, H., et al., Genetics of internode length in melons, 403.
Nesbitt, M. N. and L. Peleg, Genetic control of thymus size in inbred mice, 126.
New allele at the *Mup-1* locus controlling an electrophoretic variant of major urinary proteins in mice, H. Nikaido and J.-I. Hayakawa, 59.
New hairless mutant of the American deer mouse, *Peromyscus californicus insignis*, A. Packchanian and E. E. Louis, Jr., 229.
Nicholas, F. W., et al., Fertile male tortoiseshell cats: mosaicism due to gene instability?, 397.
Nikaido, H. and J.-I. Hayakawa, A new allele at the *Mup-1* locus controlling an electrophoretic variant of major urinary proteins in mice, 59.
Nikaido, H., et al., Evidence for separate gene loci (*Es-1* and *Es-Si*) controlling serum esterases in rats, 419.
Noble, J. F., et al., Inheritance of the hennyfeathering trait of the Sebright bantam chicken, 99.
Noda, H., Cytoplasmic incompatibility in a rice planthopper, 345.
Nodulation resistant mutant of *Pisum sativum* (L.), B. E. Kneen and T. A. LaRue, 238.
NOR activity, heterochromatin differentiation, and the Robertsonian polymorphism in *Sus scrofa* L., B. Mayr, D. Schweizer, and G. Geber, 79.
North, D. T. and A. C. Terranova, Inheritance of alcohol and octanol dehydrogenases in the boll weevil, 463.
Nuclear inheritance of polyphenol oxidase in *Nicotiana*, A. R. Lax, K. C. Vaughn, and G. E. Templeton, 285.

Okonkwo, C. A. and C. D. Clayberg, Genetics of flower and pod color in *Phaseolus vulgaris*, 440.
Olvera, O, et al. Chromosomal and behavioral studies of Mexican *Drosophila:* II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.
Omnibus: a comprehensive *Drosophila* experiment for the genetics teaching laboratory, J. K. Shull and D. A. Wise, 507.
On the origins of the Mendelian laws, F. Monaghan and A. Corcos, 67.
Orozco, F. and J. L. Campo, A genetic study of the buff columbian color pattern in Prat chickens, 19.
Orton, T. J. and M. Murata, G-band-like differentiation in mitotic prometaphase chromosomes of celery, 225.
Orton, T. J. and P. Arús, Inheritance patterns and linkage relationships of eight genes of celery, 11.

Packchanian, A. and E. E. Louis, Jr., New hairless mutant of the American deer mouse, *Peromyscus californicus insignis*, 229.
Palmer, R. G., Pleiotropy or close linkage of two mutants in soybeans, 445.
Palmer, R. G., et al., Genetic and cytological studies of a male-sterile, female-fertile soybean mutant: a new male-sterile gene (ms_2) in *Glycine max* (L.) Merr., 383.
Pancaldi, C., et al., Genetic control of body length at different ages in *Poecilia reticulata*, 27.
Paris, H. S., et al., Genetics of internode length in melons, 403.
Pasdar, M., et al., Enzyme activities and growth rates in two sunfish species and their hybrids, 453.
Pathak, S. and Satya-Prakash, K. L., Silver staining pattern of male meiosis in the house cricket, 319.
Peleg, L. and M. N. Nesbitt, Genetic control of thymus size in inbred mice, 126.
Peter, K. V. and G. D. McCollum, Pollen-stigma compatibility in direct and reciprocal crosses of *Capsicum* species, 70.
Pfennig, D. W., et al., Inbreeding and reproductive performance in Standardbred horses, 220.
Phenotypic variation of male-fertile and male-sterile segregates of *ms-1* and *ms-2* muskmelon hybrids, J. D. McCreight, 51.
Philipp, D. P., et al., Enzyme activities and growth rates in two sunfish species and their hybrids, 453.
Pigmentation and lysosomal phenotypes in mice doubly homozygous for both light-ear and pale-ear mutant alleles, M. H. Meisler, L. Wanner, and J. Strahler, 103.
Pilgrim, I., The too-good-to-be-true paradox and Gregor Mendel, 501.
Pitel, J. A. and W. M. Cheliak, Genetic control of allozyme variants in mature tissues of white spruce trees, 34; corrigendum, 416.

Plant Genetics

Alfalfa: female sterility due to recessive trait retarding integument development, 231.
Araucaria: comparative study of karyotypes of South American species, 121.
Avocado: cotyledon isozymes, 300.
Beans: inheritance of stigma position in *Phaseolus vulgaris* × *P. coccineus* hybrids, 45; fertile backcross and allotetraploid plants from crosses between tepary and common, 93; inheritance of galbrous pods in fababeans, 422; genetics of flower and pod color in *Phaseolus vulgaris*, 440.
Brassica: inheritance of bolt resistance in an interspecific cross of species: *B. napus* L. × *B. campestris* L. ssp. *pekinensis*, 407; cross of Chikale (*B. campestris* L. ssp. *pekinensis* × *B. napus* L.) × Chinese cabbage, 485.
Capsicum: pollen-stigma compatibility in direct and reciprocal crosses of species, 70.
Carrot: EMS-induced chloroplast mutagenesis, 86.
Celery: inheritance patterns and linkage relationships of eight genes, 11; G-band-like differentiation in mitotic prometaphase chromosomes, 225.
Cotton: metaphase I configurations of reciprocal translocations in cytogenetic tester set of *G. hirsutum* L, 371; genome of *G. laxum*, 389.
Elymus canadensis: cytological analysis of *E. canadensis* × *Secale cereale* hybrid, 235.
Gibberella fujikuroi: spore killer alleles, 237.
Lathyrus sylvestris: interchromosomal connections as parameter for soma association, 511.
Lettuce: variation in plants regenerated from protoplasts, 426.
Leymus mollis: morphology and cytology of interspecific hybrids, 488.
Maize: temperature-induced chloroplast ribosome deficiency in virescent, 207; heterofertilization in diverse lines, 457.
Melilotus: identification of chromosomes with secondary constrictions, 23.
Melons: phenotypic variation of male-fertile and male-sterile segregates of *ms-1* and *ms-2* muskmelon hybrids, 51; genetics of internode length, 403.
Monkey flower: complementary lethal factors in two North American populations, 510.
Morning glory: stem color and pleiotropy of genes determining flower color, 113.
Musk thistle: variation in estimates of outcrossing in populations, 303.
Napiergrass: morphological and fertility responses in isogenic triploid and hexaploid pearl millet × napiergrass hybrids, 317.
Nicotiana: cytoplasmic modification by anther culture in *N. tabacum* L., 167; ADH isozymes in seed of species and somatic hybrids, 215; nuclear inheritance of polyphenol oxidase, 285.
Orchids: Effects of carotenoid-anthocyanin combinations of flower color, 145.
Pearl millet: inheritance of stripe, 314; morphological and fertility responses in isogenic triploid and hexaploid pearl millet × napiergrass hybrids, 317; pseudogamous parthenogenesis and fertilization of a pearl millet × *Pennisetum orientale* apomictic derivative, 503.

Pennisetum orientale: pseudogamous parthenogenesis and fertilization of pearl millet × *P. orientale*, 503.
Pine: allozyme analysis of the mating system in lodgepole populations, 212.
Pisum sativum: nodulation resistant mutant, 238; chromosomal locations of twelve isozyme loci, 365; isozyme marker for resistance to bean yellow mosaic virus, 411.
Secale cereale: cytological analysis of *Elymus canadensis* × *Secale cereale* hybrid, 235.
Sorghum: karyotype analysis of seven species, 196; chromosome and fertility studies on reciprocal crosses between two autotetraploid species, 293.
Soybeans: inheritance of resistance to mosaic virus, 82; simultaneous genetic mapping of morphological and biochemical traits, 311; nodulation response with fast-growing strain of *Rhizobium*, 359; a new male-sterile gene (*ms*$_2$), 383; pleiotropy or close linkage of two mutants, 445.
Tomatoes: parthenocarpy in 'Severianin', 62; induction of plastid mutations by nitrosomethylurea, 242.
Vitis: inheritance of leaf variegation, 417.
Wheat: chromosome location of *H*$_5$ gene for resistance to Hessian fly, 147; possible mechanisms for persistence of genes for shriveled-seed trait in strains derived from wheat-rye hybrids, 273.
White spruce trees: genetic control of allozyme variants in mature tissues, 34.

Platelet storage pool disease in hybrid rats: F$_1$ Fawn-hooded rats derived from crosses with their putative ancestors (*Rattus norvegicus*), E. Tobach, J. L. DeSantis, and M. B. Zucker, 15.
Pleiotropy or close linkage of two mutants in soybeans, R. G. Palmer, 445.
Pollen-stigma compatibility in direct and reciprocal crosses of *Capsicum* species, K. V. Peter and G. D. McCollum, 70.
Popescu, C. P., et al., Reciprocal translocations in pigs: their detection and consequences on animal performance and economic losses, 448.
Position of late and early replicating human X chromosomes at somatic metaphase, D. Dosik, K. A. Babu, and R. S. Verma, 155.
Possible mechanisms for the persistence of genes for shriveled-seed trait in wheat strains derived from wheat-rye hybrids, S. S. Maan, 273.
Post, R. J., Frequency of the color variety *aureolineatus* in woodlouse, 423.
Price, S. C., et al., Estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, 141.
Prieur, D. J. and K. M. Meyers, Genetics of the fawn-hooded rat strain: the coat color dilution and platelet storage pool deficiency are pleiotropic effects of the autosomal recessive red-eyed dilution gene, 349.
Prieur, D. J. and L. L. Collier, Maltese dilution of domestic cats: a generalized cutaneous albinism lacking ocular involvement, 41.
Prieur, D. J., et al., Inheritance of congenital myasthenia gravis in smooth fox terrier dogs, 163.
Program for estimating genetic variability within and between populations, T. E. Dowling and W. S. Moore, 416.
Prout, T. and J. A. Coyne, Restoration of mutationally suppressed characters in *Drosophila melanogaster*, 308.
Provvidenti, R., et al., An isozyme marker for resistance to bean yellow mosaic virus in *Pisum sativum*, 411.
Pseudogamous parthenogenesis and fertilization of a pearl millet × *Pennisetum orientale* apomictic derivative, M. Dujardin and W. W. Hanna, 503.
Puertas, M. J. and M. Diez, Desynaptic mutants of *Locusta migratoria*, 74.

Rao, S. A. and M. H. Mengesha, Inheritance of stripe in pearl millet, 314.
Rary, J. M. and R. S. Young, Double balanced chromosomal translocation carrier (6;8), (13;14)—a case report: critique and response, 154.
Rat esterases: an update of linkage group V, L. F. M. van Zutphen and M. G. C. W. den Bieman, 313.
Ray, D. T., Metaphase I configurations of the reciprocal translocations in a cytogenetic tester set of *Gossypium hirsutum* L., 371.
R-banding of horse chromosomes: the fluorescence-photolysis-Giemsa technique after bromodeoxyuridine incorporation, A. Romagnano and C.-L. Richer, 269.
Reciprocal translocations in pigs: their detection and consequences on animal performance and economic losses, C. P. Popescu, M. Bonneau, M. Tixier, I. Bahri, and J. Boscher, 448.
Red stripe mutant and its relationship in an allelic series in *Anopheles quadrimaculatus*, S. E. Mitchell and J. A. Seawright, 421.
Regional assignment of *ADA* and *ITPA* to mouse chromosome 2 (C1→ter): a demonstration of the conserved linkage of enzyme and proto-oncogene loci, M. J. Siciliano, R. E. K. Fournier, and R. L. Stallings, 175; correction, 320.
Reisch, B. I. and J. P. Watson, Inheritance of leaf variegation in *Vitis* species, 417.
Replication banding patterns in the chromosomes of the rainbow trout, M. E. Delany and S. E. Bloom, 431.
Reproduction and heredity beliefs of the Hindus based on their sacred books, A. F. Corcos, 152.
Restoration of mutationally suppressed characters in *Drosophila melanogaster*, J. A. Coyne and T. Prout, 308.
Reyna, D. L., et al., CHROMPAC III: an improved package for microcomputer-assisted analysis of karyotypes, 143.
Rich, S. S., et al., An experimental study of genetic drift for two quantitative traits in *Tribolium*, 191.
Richardson, G. V., et al., Changes in genetic variances with increased inbreeding of beef cattle, 8.
Richer, C.-L. and A. Romagnano, R-banding of horse chromosomes: the fluorescence-photolysis-Giemsa technique after bromodeoxyuridine incorporation, 269.
Rinderer, T. E., et al., Heritabilities and correlations for several characters in the honeybee, 135.
Ringo, J. M. and D. F. Wood, Selection for resistance to desiccation in *Drosophila simulans*, 181.
Roberts, J. J. and R. L. Gallun, Chromosome location of the *H*$_5$ gene for resistance to the Hessian fly in wheat, 147.
Robertson, D. S., A study of heterofertilization in diverse lines of maize, 457.
Robinson, J. L., et al.: Detection and prevalence of UMP synthase deficiency among diary cattle, 277; Inheritance of UMP synthase in diary cattle, 337.
Robinson, R. and B. D. Leiper, A case of dominance modification in the Mongolian gerbil, 323.
Rocchetta, G., et al., Genetic control of body length at different ages in *Poecilia reticulata*, 27.
Rockwell, R. F., et al., Chromosomal and behavioral studies of Mexican *Drosophila*: II. Temporal changes of vagility characteristics of three populations of *D. pseudoobscura*, 281.
Rolfsen, R. M. and L. C. Erway, Trace metals and otolith defects in mocha mice, 158.
Romagnano, A. and C.-L. Richer, R-banding of horse chromosomes: the fluorescence-photolysis-Giemsa technique after bromodeoxyuridine incorporation, 269.
Ross, M. H. and C. B. Keil, C-banded meiotic karyotype of *Blattella germanica* from prophase I cells, 185.
Ross, M. H., et al., Genetically controlled differences in orientation in an interchange heterozygote of the German cockroach, 107.
Roupakias, D. G. and A. S. Tsaftaris, Inheritance of glabrous pods in fababeans, 422.
Russell, W. C., et al., Changes in genetic variances with increased inbreeding of beef cattle, 8.

Salas, E., et al., Comparative study of the karyotypes of South American species of *Araucaria*, 121.
Sanders, B. G. and K. Kline, Analyses of muscular dystrophy and Con A deficiency traits in testcross progeny of chickens, 31.
Sangduen, N. and W. W. Hanna, Chromosome and fertility studies on reciprocal crosses between two species of autotetraploid sorghum, 293.
Satya-Prakash, K. L. and N. V. Aswathanarayana, Behavior of sex chromosomes during meiosis in the house shrew, 149.
Satya-Prakash, K. L. and S. Pathak, Silver staining pattern of male meiosis in the house cricket, 319.
Schlarbaum, S. E., et al., Identification of chromosomes with secondary constrictions in *Melilotus* species, 23.
Schoen, D. J., et al., Stem color and pleiotropy of genes determining flower color in the common morning glory, 113.
Schweizer, D., et al., NOR activity, heterochromatin differentiation, and the Robertsonian polymorphism in *Sus scrofa* L., 79.
Seawright, J. A. and S. E. Mitchell: Chromosome-linkage group correlation in *Anopheles quadrimaculatus* (Say), 341; A red stripe mutant and its relationship in an allelic series in *Anopheles quadrimaculatus*, 421.
Segregation and linkage of allozymes of the walnut husk fly, S. H. Berlocher, 392.
Selection for resistance to desiccation in *Drosophila simulans*, J. M. Ringo and D. F. Wood, 181.
"Sex-ratio" condition in *Oncopeltus fasciatus*, J. F. Leslie, 260.
Shanks, R. D., et al.: Detection and prevalence

of UMP synthase deficiency among dairy cattle, 277; Inheritance of UMP synthase in dairy cattle, 337.
Sharma, A. K. and U. C. Lavania, Interchromosomal connections as a parameter for somatic association in *Lathyrus sylvestris*, 511.
Shull, J. K. and D. A. Wise, Omnibus: a comprehensive *Drosophila* experiment for the genetics teaching laboratory, 507.
Shumaker, K. M., et al., Estimates of population differentiation obtained from enzyme polymorphisms and quantitative characters, 141.
Shupe, J. L., et al., Detailed description and nomenclature of high resolution G-banded horse chromosomes, 265.
Siciliano, M. J., et al., Regional assignment of *ADA* and *ITPA* to mouse chromosome 2 (C1→ter): a demonstration of the conserved linkage of enzyme and proto-oncogene loci, 175; correction, 320.
Sidhu, G. S., Genetics of *Gibberella fujikuroi*: V. Spore killer alleles in *G. fujikuroi*, 237.
Silver staining pattern of male meiosis in the house cricket, K. L. Satya-Prakash and S. Pathak, 319.
Simultaneous genetic mapping of morphological and biochemical traits in the soybean, T. E. Devine, Y. T. Kiang, and M. B. Gorman, 311.
Singh, B. N., High frequency of cosmopolitan inversions in natural populations of *Drosophila ananassae* from Kerala, South India, 504.
Situs inversus in homozygous mice without immotile cilia, M. A. Handel and J. R. Kennedy, 498.
Smyth, C. A. and J. L. Hamrick, Variation in estimates of outcrossing in musk thistle populations, 303.
Sokolowski, M. B. and S. J. Bauer, Larval foraging behavior in isofemale lines of *Drosophila melanogaster* and *D. pseudoobscura*, 131.
Somes, R. G., Jr., Dominant white plumage-color somatic mosaic in the domestic fowl, 71.
Somes, R. G., Jr., et al., Inheritance of the henny-feathering trait of the Seabright bantam chickens, 99.
Splittstoesser, W. E., et al., Expression and inheritance of parthenocarpy in 'Severianin' tomato, 62.
Sponenberg, D. P., Germinal reversion of the merle allele in Australian shepherd dogs, 78.
Sponenberg, D. P., et al., Direct evidence for linkage of roan and extension loci in Belgian horses, 413.
Stallings, R. L., et al., Regional assignment of *ADA* and *ITPA* to mouse chromosome 2 (C1→ter): a demonstration of the conserved linkage of enzyme and proto-oncogene loci, 175; correction, 320.
Stem color and pleiotropy of genes determining flower color in the common morning glory, D. J. Schoen, D. E. Giannasi, R. A. Ennos, and M. T. Clegg, 113.
Stolc, V.: Linkage of hooded and hood-modifier genes in the rat, 81; Genetic polymorphism of ceruloplasmin in the rat, 414.
Stone, S. H. and D. F. Amsbaugh, Autosomal dominant congenital nuclear cataracts in strain 13/N guinea pigs, 55.
Strahler, J., et al., Pigmentation and lysosomal phenotypes in mice doubly homozygous for both light-ear and pale-ear mutant alleles, 103.
Study of heterofertilization in diverse lines of maize, D. S. Robertson, 457.

Temperature-induced chloroplast ribosome deficiency in virescent maize, W. G. Hopkins and B. Elfman, 207.
Templeton, G. E., et al., Nuclear inheritance of polyphenol oxidase in *Nicotiana*, 285.
Terranova, A. C. and D. T. North, Inheritance of alcohol and octanol dehydrogenases in the boll weevil, 463.
Text of human and basic genetics, W. J. Ash (Rev.), 324.
Thomas, C. V. and J. G. Waines, Fertile backcross and allotetraploid plants from crosses between tepary beans and common beans, 93.
Tiger mouse and relatives: variants caused by an activated transposable element?, M. E. Wallace and H. R. Nash, 2.
Tixier, M., et al., Reciprocal translocations in pigs: their detection and consequences on animal performance and economic losses, 448.
Tobach, E., et al., Platelet storage pool disease in hybrid rats: F_1 Fawn-hooded rats derived from crosses with their putative ancestors (*Rattus norvegicus*), 15.
Todd, N. B. and A. T. Lloyd, Mutant allele frequencies in domestic cats of Portugal and the Azores, 495.
Too-good-to-be-true paradox and Gregor Mendel, I. Pilgrim, 501.
Torres, A. M., Isozymes from avocado cotyledons, 300.
Trace metals and otolith defects in mocha mice, R. M. Rolfsen and L. C. Erway, 158.
Tracey, M. L., Mechanisms of speciation: published proceedings (Rev.), 84.
True Mendelian laws, F. V. Monaghan and A. Corcos, 321.
Tsaftaris, A. S. and D. G. Roupakias, Inheritance of glabrous pods in fababeans, 422.
Tu, J. C. and R. I. Buzzell, Inheritance of soybean resistance to soybean mosaic virus, 82.

Van der Loos, H., et al., Variation in pattern of mystacial vibrissae in mice: a quantitative study of ICR stock and several inbred strains, 326.
Van Zutphen, L. F. M. and M. G. C. W. den Bieman, Rat esterases: an update of linkage group V, 313.
Vanelli, M. L., et al., Genetic control of body length at different ages in *Poecilia reticulata*, 27.
Variation in estimates of outcrossing in musk thistle populations, C. A. Smyth and J. L. Hamrick, 303.
Variation in lettuce plants regenerated from protoplasts, D. E. Engler and R. G. Grogan, 426.
Variation in pattern of mystacial vibrissae in mice: a quantitative study of ICR stock and several inbred strains, H. Van der Loos, J. Dörfl, and E. Welker, 326.
Vaughn, K. C., et al.: Ethyl methanesulfonate-induced chloroplast mutagenesis in crops: induction and ultrastructure of mutants, 86; Nuclear inheritance of polyphenol oxidase in *Nicotiana*, 285.
Verma, R. S., et al., Position of late and early replicating human X chromosomes at somatic metaphase, 155.

Wachtel, S. S., et al., H-Y antigen and the evolution of heterogamety, 353.
Waines, J. G. and C. V. Thomas, Fertile backcross and allotetraploid plants from crosses between tepary beans and common beans, 93.
Wallace, M. E. and H. R. Nash, A tiger mouse and relatives: variants caused by an activated transposable element?, 2.
Wang, R. R-C. and C. Hsiao, Morphology and cytology of interspecific hybrids of *Leymus mollis*, 488.
Wanner, L., et al., Pigmentation and lysosomal phenotypes in mice doubly homozygous for both light-ear and pale-ear mutant alleles, 103.
Watson, J. P. and B. I. Reisch, Inheritance of leaf variegation in *Vitis* species, 417.
Weeden, N. F. and G. A. Marx, Chromosomal locations of twelve isozyme loci in *Pisum sativum*, 365.
Weeden, N. F., et al., An isozyme marker for resistance to bean yellow mosaic virus in *Pisum sativum*, 411.
Weitkamp, L. R., et al., Inbreeding and reproductive performance in Standardbred horses, 220.
Welker, E., et al., Variation in pattern of mystacial vibrissae in mice: a quantitative study of ICR stock and several inbred strains, 326.
Whitt, G. S., et al.: Genetics of speciation within the *Polistes fuscatus* species complex, 117; Enzyme activities and growth rates in two sunfish species and their hybrids, 453.
Wiktor-Jedrzejczak, W. and L. Kaczmarek, A backcross method to prevent prenatal death of steel mutant mice, 73.
Wilson, J. D., et al., Inheritance of the henny-feathering trait of the Seabright bantam chicken, 99.
Wilson, K. G., et al., Ethyl methanesulfonate-induced chloroplast mutagenesis in crops: induction and ultrastructure of mutants, 86.
Wilson, S. P., et al., An experimental study of genetic drift for two quantitative traits in *Tribolium*, 191.
Wise, D. A. and J. K. Shull, Omnibus: a comprehensive *Drosophila* experiment for the genetics teaching laboratory, 507.
Wood, D. F. and J. M. Ringo, Selection for resistance to desiccation in *Drosophila simulans*, 181.
Wright, Jr., J. E., et al., Linkage associations in hybridized *Salvelinus* genomes: the duplicate loci encoding pepidase-D and glucosephosphate isomerase and the unduplicated sorbitol dehydrogenase locus, 253.

Yamada, J., et al., Evidence for separate gene loci (*Es-1* and *Es-Si*) controlling serum esterases in rats, 419.
Young, R. S. and J. M. Rary, Double balanced chromosomal translocation carrier (6;8), (13;14)—a case report: critique and response, 154.

Zinc metabolism in lethal-milk mice: otoliths, lactation, and aging effects, L. C. Erway and A. Grider, Jr., 480.
Zucker, M. B., et al., Platelet storage pool disease in hybrid rats: F_1 Fawn-hooded rats derived from crosses with their putative ancestors (*Rattus norvegicus*), 15.

THE JOURNAL OF HEREDITY

An illustrated bimonthly publication devoted to plant genetics, animal genetics, and human heredity

PUBLISHED BY THE
AMERICAN GENETIC ASSOCIATION

VOLUME 75

WASHINGTON, D.C.
1984